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| | 48 | Under the Paperwork Reduction Act of 1995, no persons are required to | respond | | | | | ARTMENT OF COMMERCE | | |
|------------------|--|--|---|--|--------------------------------------|--|---------------|---------------------------------|------------------|--|
| | ٦ | UTILITY | Attorney Docket No. 716875.6 | | | | | | | |
| | N | PATENT APPLICATION | First Named Inventor KORAKIANITIS et al. | | | | S et al. | | | |
| | | TRANSMITTAL | | tle | OPTIMIZED | | | W VENTRICULAR-ASSIST | _ | |
| | PI | | | DEVICE AND TOTAL ARTIFICIAL HEART | | | | | | |
| (U n | = O | new nonprovisional applications under 37 CFR 1.53(b)) | Ex | pres | s Mail Label No | o. EV32 | 20682425 | US | | |
| | | APPLICATION ELEMENTS | AD | DRE | SS TO: Mail St | top Patent Ap | plication | | | |
| See M | IPEP cl | apter 600 concerning utility patent application contents. | | | | ssioner for Pate ox 1450 | ents | | | |
| | = | A D TO COLUMN | | | | dria, VA 22313 | | | | |
| 1. | \boxtimes | Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) | 7. | Ц | CD-ROM or (Appendix) | CD-R in d | uplicate, l | large table or Computer Program | = | |
| 2. | \boxtimes | Applicant claims small entity status. | 8. | Nu | cleotide and/or | Amino Ac | id Sequen | nce Submission | = | |
| 3. | \boxtimes | See 37 CFR 1.27 Specification [Total Pages 131] | | | applicable, all n | | | | Ξ | |
| ٥. | | (preferred arrangement set forth below, MPEP 1503.01) - Descriptive title of the invention | | a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or | | | | | | |
| | - | | | | | | | | | |
| | - | Cross Reference to Related Applications | | ii. | paper | OCDR | (2 copies) | /, _e , | | |
| | - | Statement Regarding Fed sponsored R&D | c. Statements verifying identity of above copies | | | | | | | |
| | - | Reference to sequence listing, a table, or a computer program listing appendix | ACCOMPANYING APPLICATION PARTS | | | | | | | |
| | - | Background of the Invention | 9. | X | Assignment Pap | ers (copy fro | om prior ap | pplication) | - | |
| | _ | Brief Summary of the Invention | 10. | \boxtimes | | | | Power of Attorney (copy) | f Attomey (copy) | |
| | - | Brief Description of the Drawings (if filed) | | | (when there is a | an assignee) |) | • | | |
| | - | Detailed Description | 11. | 11. English Translation Document (if applicable) | | | | | | |
| | - | Claim(s) Abstract of the Disclosure | 12. | 12. Information Disclosure Statement . Copies of IDS (IDS)/PTO-1449 . Citations | | | | | | |
| 4. | \boxtimes | Drawings (37 U.S.C. 113) [Total Sheets 22] | | | | | | | | |
| 5. | a. | n or Declaration [Total Pages 2] Newly executed (original or copy) | 13. A Preliminary Amendment | | | | | | | |
| | b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) | | | 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) | | | | | | |
| | | i. DELETION OF INVENTOR(S) | 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) | | | | | | | |
| | | Signed statement attached deleting inventor(s) named in the prior application, see | | | | | | | | |
| 6. | 37 CFR 1.63(d)(2) and 1.33(b) Application Data Sheet. See 37 CFR 1.76 | | | 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 | | | | | | |
| | | | ľ | | (b)(2)(B)(i). Ap or its equivalen | | st attach for | rm PTO/SB/35 | | |
| | | | | _ | - | | | | | |
| | | | 17. | Ц | Other: | | _ | | | |
| | | ONTINUING APPLICATION, check appropriate box, and supply the re | quisite | info | ormation below a | ind in a pre | liminary a | mendment, or in an Application | | |
| | | t under 37 CFR 1.76: | | | | | | | | |
| ш | | inuation 🛛 Divisional 🔲 Continuation- | • | | - | application | | | | |
| | | rapplication information: Examiner <u>Jastrzab, Jeffre</u> | | | - | - | rt Unit: | | | |
| 5b, i | s con | TINUATION or DIVISIONAL APPS only: The entire disclosure of sidered a part of the diclosure of the accompanying continuation or | divisio | nal : | application and | is hereby i | incorpora | ited by reference. The | ĸ | |
| inco | rpora | tion can only be relied upon when a portion has been inadvertently 19. CORRESPON | | | | ed applicat | ion parts. | | | |
| | | | | | | | | | | |
| \boxtimes | Cus | tomer Number or Bar Code Label 27:128 | | | ······ | Corre | spondence | address below | | |
| Nam | e | Rebecca J. Brandau | 28 | | | i | | | | |
| | | 720 01170 81680 | | FEISE | | - | | | | |
| Addı | Iress Suite 2400 PATENT TRADEM | | | :MARK OFFICE | | | | | | |
| City | St. Louis State Missouri Zip Code 63101 | | | | | | | | | |
| Cour | itry | United States Telephone | 314-3 | 45-60 | 000 | | Fax | 314-345-6060 | | |
| Nam | e (Pr | int/Type) Rebecca J. Brandau | | _ | ation No. ey/Agent) | | 33,654 | 4 | | |
| Sign | ature | 0100 | - \- \- · | | <u> </u> | - Date | July 3 | , 2003 | _ | |
| - | | Lusteen Kranden | • | | | | R | | | |
| | | | | | | | /- | | | |

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PTO/SB/17 (01/03)

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| ł | FEE TRANSMITTAL |
|---|------------------------|
| 1 | for FY 2003 |

Effective 01/01/2003. Patent fees are subject to annual revision. Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 1,655.00

| Complete if Known | | | | | | |
|----------------------|---------------------|--|--|--|--|--|
| Application Number | Not Yet Known | | | | | |
| Filing Date | Herewith | | | | | |
| First Named Inventor | KORAKIANITIS et al. | | | | | |
| Examiner Name | Not Yet Known | | | | | |
| Art Unit | 3762 | | | | | |
| Attorney Docket No. | 716875 6 | | | | | |

| METHOD OF PAYMENT (check one) | FEE CALCULATION (continued) | | | | | |
|--|-----------------------------|--|-------------|-------------|--|--|
| Check Credit card Money Other None | 3. ADDITIONAL FEES | | | | | |
| Deposit Account: Order | Large | Large Entity Small Entity | | | | |
| Deposit Account 11-0160 | Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description | |
| Number L | 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | |
| Account Name | 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | |
| The Commissioner is authorized to: (check all that apply) | 1053 | 130 | 1053 | 130 | Non-English specification | |
| Charge fees indicated below Credit any overpayments | 1812 | 2,520 | 1812 | 2,520 | For filing a request for ex parte reexamination | |
| Charge any additional fee(s) during the pendency of this application Charge fee(s) indicated below, except for the filing fee | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| to the above-identified deposit account. | 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| FEE CALCULATION | 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| 1. BASIC FILING FEE | 1252 | 410 | 2252 | 205 | Extension for reply within second month | |
| Large Entity Small Entity | 1253 | 930 | 2253 | 465 | Extension for reply within third month | |
| Fee Fee Fee Fee Fee Description Fee Paid Code (\$) | 1254 | 1,450 | 2254 | 725 | Extension for reply within fourth month | |
| 1001 750 2001 375 Utility filing fee 375 | 1255 | 1,970 | 1155 | 985 | Extension for reply within fifth month | |
| 1002 330 2002 165 Design filing fee | 1401 | 320 | 2401 | 160 | Notice of Appeal | |
| 1003 520 2003 260 Plant filing fee | 1402 | 320 | 2402 | 160 | Filing a brief in support of an appeal | |
| 1004 750 2004 375 Reissue filing fee | 1403 | 280 | 2403 | 140 | Request for oral hearing | |
| 1005 160 2005 80 Provisional filing fee | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| SUBTOTAL (1) (\$) 375.00 | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | 1453 | 1,300 | 2453 | 650 | Petition to revive - unintentional | |
| Fee from | 1501 | 1,300 | 2501 | 650 | Utility issue fee (or reissue) | |
| Extra Claims below Fee Paid Total Claims 58 -20** = 38 | 1502 | 470 | 2502 | 235 | Design issue fee | |
| Independent 22 -3** = 19 X 42 = 798 | 1503 | 630 | 2503 | 315 | Plant issue fee | |
| Claims | 2000 | 000 | 2303 | 015 | | |
| Multiple Dependent 140 = 140 | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| Large Entity Small Entity | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | |
| Fee Fee Fee Fee Description Code (\$) Code (\$) | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | |
| 1202 18 2202 9 Claims in excess of 20 | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | |
| 1201 84 2201 42 Independent claims in excess of 3 | 1809 | 750 | 2809 | 375 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1203 280 2203 140 Multiple dependent claim, if not paid | 1810 | . 750 | 2810 | 375 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1204 84 2204 42 ** Reissue independent claims over original patent | 1801 | 750 | 2801 | 375 | Request for Continued Examination (RCE) | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | 1802 | 900 1802 900 Request for expedited examination of a design application | | | | |
| SUBTOTAL (2) (\$)1,280.00 | Other fee (specify) | | | | | |
| **or number previously paid, if greater; For Reissues, see above | *Reduc | ed by Bas | ic Filing F | ee Paid | SUBTOTAL (3) (\$) | |

| SUBMITTED BY | | (Complete (if applicable)) | | | | | |
|----------------------|--------------------|--------------------------------------|--------|-----------|--------------|--|--|
| Name (Print/Type) | Rebecca J. Brandau | Registration No. (Attorney/Agent) | 33,654 | Telephone | 314-345-6000 | | |
| Signature | Rivera V. Drandow | | | Date | her 2 2003 | | |
| | / | | | | | | |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card Information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to bothic retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary upon the individual case. Any comments on the amount of time you require to complete this form and/or reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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PTO/SB/96 (08-00)
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| STATEMENT UNDER 37 CFR 3.73(b) | | | | | |
|---|--|--|--|--|--|
| Applicant/Patent Owner: KORAKIANITIS et al. | | | | | |
| Application No./Patent No.: Unknown Filed/Issue Date: Herewith | | | | | |
| Entitled: OPTIMIZED PULSATILE-FLOW VENTRICULAR-ASSIST DEVICE AND TOTAL ARTIFICIAL HEART | | | | | |
| LTK Enterprises, L.L.C. , a <u>corporation</u> (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.) | | | | | |
| | | | | | |
| states that it is: | | | | | |
| 1. the assignee of the entire right, title, and interest; or | | | | | |
| 2. an assignee of less than the entire right, title and interest. The extent (by, percentage) of its ownership interest is% | | | | | |
| in the patent application/patent identified above by virtue of either: | | | | | |
| A. [x] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 011603, Frame 0978, or for which a copy thereof is attached. | | | | | |
| OR | | | | | |
| B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: | | | | | |
| 1.From:To:To:The document was recorded in the United States Patent and Trademark Office at | | | | | |
| Reel, Frame, or for which a copy thereof is attached. | | | | | |
| 2.From:To: | | | | | |
| The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. | | | | | |
| 3.From:To: | | | | | |
| The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. | | | | | |
| Additional documents in the chain of title are listed on a supplemental sheet. | | | | | |
| [] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08] | | | | | |
| The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. | | | | | |
| // // > 2002 | | | | | |
| Rebecca J. Brandau Date Typed or printed name | | | | | |
| here of Jan Illa | | | | | |
| Signature | | | | | |
| Attorney of Record | | | | | |
| Title | | | | | |

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